

O I P E
NOV 13 2003
PATENT & TRADEMARK OFFICE
In the Claims

2 Claims 5, 14, 31 and 44 are amended.

3 Claims 1-47 are pending and are listed below as follows:

4

5 1. (Original) A method of generating an XML document comprising:
6 preparing only a portion of an XML document;
7 sending said portion to a client; and
8 repeating said preparing and said sending until an entire XML document is
9 sent to a client.

10

11 2. (Original) The method of claim 1, wherein said preparing comprises:
12 gathering data that is to appear in the XML document;
13 calling an emitter object;
14 passing the emitter object gathered data; and
15 formatting the gathered data into an appropriate XML syntax with the
16 emitter object.

17

18 3. (Original) The method of claim 2, wherein said gathering comprises
19 using a data gathering object to gather said data.

20

21 4. (Original) The method of claim 1 further comprising prior to said
22 preparing, receiving a request for the XML document from the client.

23

24 5. (Currently Amended) A method of responding to an Extensible
25 Markup Language (XML) request comprising:

1 receiving an XML ~~a~~ request from a client for an XML document;
2 preparing only a portion of a response to the request; and
3 sending the response portion to the client.

4

5 6. (Original) The method of claim 5 further comprising repeating said
6 preparing and said sending until an entire response has been sent to the client.

7

8 7. (Original) The method of claim 5 further comprising repeating said
9 preparing and said sending until an entire response has been sent to the client, said
10 preparing of response portions taking place in a defined order.

11

12 8. (Original) The method of claim 5 further comprising repeating said
13 preparing and said sending until an entire response has been sent to the client, said
14 preparing of response portions taking place in a defined order, wherein the
15 response comprises an XML multistatus response.

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17 9. (Original) The method of claim 5, wherein the response comprises
18 an XML multistatus response.

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20 10. (Original) The method of claim 5, wherein said preparing comprises:
21 gathering data for said response portion with a data-gathering mechanism;
22 and
23 formatting gathered data into an appropriate XML syntax with a data-
24 formatting mechanism.

1 11. (Original) The method of claim 10, wherein said sending comprises
2 sending the response portion to the client with a response-sending mechanism.

3
4 12. (Original) The method of claim 11, wherein said response-sending
5 mechanism includes a buffer for holding at least one response portion that is
6 prepared by the data-formatting mechanism and further comprising:

7 defining a buffer threshold;
8 buffering said at least one response portion in the buffer; and
9 sending said at least one response portion to the client when the buffer
10 threshold is reached.

11
12 13. (Original) A computer-readable medium having a program which,
13 when executed by a computer, performs the method of claim 5.

14
15 14. (Currently Amended) A method of responding to an Extensible
16 Markup Language (XML) request comprising:

17 receiving an XML ~~a~~ request from a client for an XML document;
18 gathering data that is to appear in a response to the client's request;
19 calling an emitter object and passing the emitter object the gathered data;
20 formatting the gathered data into an appropriate XML syntax with the
21 emitter object; and
22 emitting formatted data from the emitter object, the emitter object emitting
23 the formatted data in a manner in which an XML response can be sent to the client
24 without having to build a hierarchical tree that represents the XML response.

1 15. (Original) The method of claim 14 further comprising:
2 accumulating the emitted formatted data in a buffer; and
3 sending buffered data to the client when the buffer contains a defined
4 amount of data that is less than an amount that would constitute a complete
5 response to the client's request.

6
7 16. (Original) The method of claim 14, wherein:
8 said calling comprises calling the emitter object multiple times; and
9 said emitting comprises emitting multiple amounts of formatted data.
10
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12 17. (Original) The method of claim 14, wherein:
13 said calling comprises calling the emitter object multiple times and in a
14 defined order; and
15 said emitting comprises emitting multiple amounts of formatted data.

16
17 18. (Original) The method of claim 14, wherein said gathering
18 comprises gathering data that is to appear in a multistatus response.

19
20 19. (Original) A computer-readable medium having a program which,
21 when executed by a computer, performs the method of claim 14.

22
23 20. (Original) A method of responding to an Extensible Markup
24 Language (XML) request comprising:
25 receiving an XML request from a client, the XML request containing a
 Web Distributed Authoring and Versioning (WebDAV) request method;

1 determining the WebDAV request method that is contained in the client's
2 request;

3 creating a request method object for the WebDAV request method;

4 gathering data that is to appear in a response to the client's request with the
5 request method object;

6 calling an emitter object and passing the emitter object data that was
7 gathered by the request method object; and

8 generating at least a portion of a syntactically correct XML response with
9 the emitter object using the data that was gathered by the request method object.

10
11 21. (Original) The method of claim 20 further comprising sending the
12 response portion to the client.

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14 22. (Original) The method of claim 21, wherein the sending of the
15 response portion comprises doing so without building an entire hierarchical tree
16 structure that represents an entire response for the client's request.

17
18 23. (Original) The method of claim 20, wherein said calling comprises
19 calling the emitter object a plurality of times for a given response.

20
21 24. (Original) The method of claim 20, wherein said generating
22 comprises generating a plurality of syntactically correct XML response portions
23 and sending said response portions separately to the client.

1 25. (Original) The method of claim 20, wherein said calling comprises
2 calling the emitter object a plurality of times and in a defined order for a given
3 response.

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5 26. (Original) The method of claim 20, wherein:
6 said calling comprises calling the emitter object a plurality of times for a
7 given response; and

8 said generating comprises generating a plurality of syntactically correct
9 XML response portions and sending said response portions separately to the client.

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11 27. (Original) The method of claim 20 further comprising:
12 buffering a plurality of response portions in a buffer; and
13 sending the plurality of response portions together to the client.

14

15 28. (Original) The method of claim 27, wherein said sending of the
16 plurality of response portions comprises sending less than an entirety of a response
17 to the client.

18

19 29. (Original) The method of claim 27 further comprising:
20 setting a threshold value on the buffer;
21 determining when the threshold value is satisfied by the response portions
22 that are buffered therein; and
23 responsive to the threshold value being satisfied, sending the buffered
24 response portions to the client.

1 30. (Original) A computer-readable medium having a program which,
2 when executed by a computer, performs the method of claim 20.

3
4 31. (Currently Amended) An Extensible Markup Language (XML)
5 request processor comprising:

6 an XML response generator comprising:
7 a request-receiving mechanism configured to receive ~~an XML~~ a request
8 from a client for an XML document;

9 a response-preparing mechanism coupled with the request-receiving
10 mechanism and configured to prepare only a portion of a response at a time; and

11 a sending mechanism coupled with the response-preparing mechanism and
12 configured to receive response portions from the response-preparing mechanism
13 and to send the response portions to the client, the sent response portions
14 constituting less than an entirety of a response.

15
16 32. The XML request processor of claim 31, wherein the response-
17 preparing mechanism is configured to prepare response portions and the sending
18 mechanism is configured to send the response portions to the client until an entire
19 response is sent to the client.

20
21 33. (Original) The XML request processor of claim 31, wherein the
22 response that is sent to the client comprises a multistatus response.

1 34. (Original) The XML request processor of claim 31, wherein the
2 response-preparing mechanism is configured to prepare response portions in a
3 defined order.

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5 35. (Original) The XML request processor of claim 31, wherein the
6 response-preparing mechanism includes a data-gathering function that gathers data
7 that is to appear in a client's response, and a formatting function that receives data
8 that is gathered by the data-gathering function and formats the data into an
9 appropriate XML syntax.

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11 36. (Original) The XML request processor of claim 31, wherein the
12 sending mechanism includes a buffer for buffering response portions that are
13 received from the response-preparing mechanism, and wherein the buffer has a
14 defined threshold which, when satisfied, enables the sending mechanism to send
15 buffered response portions to the client.

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17 37. (Original) An Extensible Markup Language (XML) request
18 processor comprising:

19 a data-gathering object for gathering data that is to appear in a client
20 response and generating calls in a predefined order that contain the gathered data;
21 and

22 an emitter object configured to receive calls that are generated by the data-
23 gathering object and format the data contained therein into an appropriate XML
24 syntax.

1 38. (Original) The XML request processor of claim 37, wherein the
2 emitter object is configured to emit only portions of a response that are piecewise
3 sent to the client.

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5 39. (Original) The XML request processor of claim 38 further
6 comprising a buffer that is configured to receive response portions that are emitted
7 from the emitter object, buffered response portions being sent to the client when a
8 defined buffer threshold is satisfied.

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10 40. (Original) The XML request processor of claim 37 further
11 comprising a buffer that is configured to receive response portions that are emitted
12 from the emitter object, buffered response portions being accumulated by the
13 buffer and sent to the client when a defined buffer threshold is satisfied, the
14 buffered response portions comprising less than a complete response.

15

16 41. (Original) A computer-readable medium having a computer program
17 for responding to an XML request, the program comprising the following steps:

18 receiving a client request;

19 determining an HTTP verb that is contained in the client request;

20 instantiating a request method object that corresponds to the HTTP verb
21 that is contained in the client request;

22 using the request method object to gather information that is to appear in a
23 response to the client's request;

1 making a series of calls to an emitter object that is configured to receive
2 information from the request method object and process the information into a
3 response portion having an appropriate XML syntactic format; and
4 sending the response portion to the client.

5

6 42. (Original) The program of claim 41, wherein the making of the
7 series of calls comprises doing so in a defined order.

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9 43. (Original) The program of claim 41 further comprising accumulating
10 response portions, said sending comprising sending accumulated response portions
11 to the client, the accumulated response portions constituting less than an entirety
12 of a complete client response.

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14 44. (Currently Amended) A computer-readable medium having software
15 code that is configured to receive ~~an XML~~ a request from a client for an XML
16 document and instantiate an object that corresponds to an HTTP verb that is
17 contained in the request, the software code further using the object to build a
18 portion of an XML response to the request.

19

20 45. (Original) The software code of claim 44, wherein individual objects
21 that are instantiable by the software code are unique to an HTTP verb with which
22 it corresponds.

1 46. (Original) The software code of claim 44, wherein the object is
2 configured to make calls to another object, the calls containing information that is
3 to be included in the XML response.

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5 47. (Original) The software code of claim 44, wherein the object is
6 configured to make calls to a second object, the calls containing information that is
7 to be included in the XML response, the second object being configured to format
8 the information into an appropriate syntactic form.

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